

**"APPROVED FOR RELEASE: 08/31/2001**

**CIA-RDP86-00513R001858720015-4**

**APPROVED FOR RELEASE: 08/31/2001**

**CIA-RDP86-00513R001858720015-4"**

VASICEK, A.

" Multiple Thin Layers Used for Mirrors and Interference Filters," p. 113.  
(Casopis Pro Pestovani Fysiky, Vol.3, No.2, Apr. 1953, Praha.)

SO: Monthly List of East European Vol.2, No.9  
Russian Accessions, Library of Congress, September 1953, Uncl.

VASICEK, A.

CZECH

535.39 : 539.23  
6522. The reflection of light from glass with a thin metallic film. A. VASICEK. Czech. J. Phys., 3, No. 2, 126-30 (1953).

Deduces the correct formula for the reflection of light on a thin metallic film by the generalizing of the well-known formula for the reflection of light on a thin transparent film deposited on glass. The deduced formula is in accordance with a simple consideration about the energy relationship in a reflected light. In the second part the optical coherence between the reflection of light from two thin transparent films and the reflection from a thin metallic film is discussed. A.

VASICEK, ANTONIN

②  
 Study of the anodized alumina films on aluminum by the  
 polarimetric method. Antonin Vasicek (Masaryk Univ.,  
 Brno). Czechoslov. J. Phys. 3, 167-8 (1958) (in English).  
 Polarized Na light was reflected from an Al mirror (evapd. on  
 optically polished glass) placed within a hollow glass prism  
 in the shape of an equilateral triangle. The face of the mir-  
 ror was parallel to one side of the triangle such that the light  
 beam entered normal to the glass walls before and after re-  
 flection. Changes of  $\gamma$ , the angle of ellipticity, were  
 measured with an analyzer while anodizing in a satd. soln.  
 of  $H_2O_2$  at 50 v. The initial current (4 ma.) decreased  
 with time. The total change of  $\gamma$  from the start of anodizing  
 was:  $1^{\circ}21'$  (30 sec.),  $2^{\circ}28'$  (1 min.),  $4^{\circ}10'$  (2 min.),  
 $5^{\circ}42'$  (3 min.). In 3% tartaric acid (pH 5.5 with  $NH_4OH$ )  
 the change in  $\gamma$  at 50 v. was in agreement with the data of  
 Hass and Scott (J. phys.adium 11, 304 (1950)). Relat-  
 ively little change occurred in the angle between the semi-  
 major axis of the ellipse and the plane of incidence.  
 R. D. Misch

Inst. of Physics

VASICEK, Antonin.

Multiple thin dielectric films as mirrors and interference filters  
[in English with summary in Russian]. Chekh.fiz.sbur. 3 no.3:206-224  
S '53. (MLRA 7:6)

1. Institute of Physics, Masaryk University, Brno.  
(Films, Chemistry) (Mirrors) (Interference (Light))

VASIOEK, A.

"Two New Books on Thin Solid Lamina; A Review" P. 106  
( CESKOSLOVENSKY CASOPIS PRO FYSIKU Vol. 4, No. 1, Feb.1954 - Praha, Czech. )

SO: Monthly List of East European Accessions, (EEAL), LC., Vol. 4, No. 4,  
April 1955, Uncl.

VASICEK, ANTON

3

CZECH

✓ The determination of the refractive index and the thickness of thin films of aluminum oxide on aluminum by the polarimetric method

Anton Vasicek, Masaryk Univ., Brno, 4, 261-28, 1948

The refractive index and the thickness of thin films of aluminum oxide on aluminum can be determined by the polarimetric method. The refractive index of the film is determined by the angle of reflection of light from the film surface. The thickness of the film is determined by the angle of reflection of light from the film surface. The refractive index of the film is determined by the angle of reflection of light from the film surface. The thickness of the film is determined by the angle of reflection of light from the film surface.

increase the resistance of the metallic surface to chem. agents. By the polarimetric method the  $n$  and the thickness of a thin nonmetallic film can be determined not only on glass but also on a metallic mirror. The polarimetric method is suitable for the study of the thinnest films on metals for which other methods fail. George Münster

AA- (Jan)

CZECH

535.39 : 539.23  
6050. Note on the formula for the reflection of light  
from glass with a thin metallic film. A. VAVCEK.  
Letter in Czech. J. Phys., 5, No. 1, 103-4 (Feb., 1955).  
The author answers some comments on the form  
of an equation [Abstr. 6522 (1954)] dealing with  
reflection at a perfect metallic mirror. It is shown  
that this equation is only a special case of more  
general relations for reflection by a number of metal  
films on a dielectric substrate, and that the form of  
the equation results from these general equations.

98 D. B. AVERY  
1001



Vasicek, A.

Reflection and passage of light through thin transparent layers. P. 27  
CESKOSLOVENSKY CASOPIS PRO FYSIKU. (Ceskoslovenska akademie ved.  
Ustav technicke fysiky) Praha.  
Vol. 6, no. 1, Jan. 1956

Source: EEAL - LC Vol. 5. No. 10 Oct. 1956

**CIA-RDP86-00513R001858720015-4**

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VASICEK, ANTONIN

Optika tenkych vrst,  
354 p. (Ceskoslove  
prameny, sv.11) ((  
tables)

QC  
378  
.V3  
E5

VASICEK, ANTONIN

OPTICS OF THIN FILMS. AMSTERDAM, NORTH-HOLLAND,  
1960.

403 P. DIAGRS., GRAPHS, TABLES. 23 CM.  
TRANSLATION OF THE ORIGINAL CZECH: OPTIKA TENKYCH  
VRSTEV. PRAHA, 1956.  
BIBLIOGRAPHY: P. 392-394.

1957. Uncl.

SO: Monthly Lis

I. SOLID FILM - OPTICAL PROPERTIES. 2. OPTICS, PHYSICAL  
I. TITLE. II. OPTIKA TENKYCH VRSTEV.

12~

VASICER, ANTONIN  
CZECHOSLOVAKIA/Optics - Physical Optics

K-5

Abs Jour : Ref Zhur - Fizika, No 7, 1958, No 16618

Author : Vasicek Antonin  
Inst : Not Given  
Title : Concerning the Derivation of Formulas for the Reflection and  
Refraction of Light by Thin Layers

Orig Pub : Ceskosl. casop. fys., 1957, 7, No 3, 315-316

Abstract : A simple derivation of these formulas is given.

Card : 1/1

VASICEK, ANTONIN

CZECHOSLOVAKIA/Optics - Physical Optics

K-5

Abs Jour : Ref Zhur - Fizika, No 5, 1958, No 11755

Author : Vasicek Antonin

Inst : Masaryk University, Brno, Czechoslovakia

Title : On the Derivation of Equations for the Reflection and Refraction of Light From a Thin Film.

Orig Pub : Chekhosl. fiz. zh., 1957, 7, No 3, 369-370

Abstract : A simplified derivation is proposed for the formulas for the reflection and refraction of light from a thin film. General expressions are obtained for the coefficient of reflection and the coefficient of transmission, suitable also for conducting absorbing films. In the case of transparent (non-absorbing) dielectric films, the formula assume the known form. The theory of reflection and refraction of light in thin films can be reduced to the theory of a two-port network. The transparent films correspond to a symmetrical two-port network.

Card : 1/1

VASICEK, A.

CZECHOSLOVAKIA/Optics - Physical Optics

K-5

Abs Jour : Ref Zhur - Fizika, No 4, 1959, No 6724

Author : Knittl Zdenek, Vasicek Antonin

Inst : -

Title : Critical Remarks on the Vasicek Review of the Theory of Reflection of Light From a Thin Metallic Layer

Orig Pub : Ceskosl. casop. fys., 1958, 8, No 1, 139-143

Abstract : See Referat Zhur Fizika, 1959, No 1, 1903

Card : 1/1

CZECHOSLOVAKIA/Optics - Physical Optics.

Abs Jour : Ref Zhur - Fizika, No 6, 1959, 14109

Author : Vasicek, Antonin

Inst :

Title : A Remark on the Reflection of Light from a Metal with  
a Thin Interfering Non-Metallic Film.

Orig Pub : Chekosl. fiz. zh., 1958, 8, No 3, 296-300

Abstract : See Abstract 14108.

Card 1/1

- CZECHOSLOVAKIA/Optics - Physical Optics.

Abs Jour : Ref Zhur - Fizika, No 6, 1959, 14108

Author : Vasicek, Antonin

Inst : Masaryk University, Brno, Czechoslovakia

Title : A Remark on the Reflection of Light from a Metal with a Thin Interfering Non-Metallic Film.

Orig Pub : Ceskosl. casop. fys., 1958, 8, No 3, 299-302

Abstract : In the development of the theory of reflection of light from a metal with thin non-metallic film, proposed by the author (Referat Zhur Fizika, 1956, No 4, 11610), results are cited on new calculations for the dependence of the azimuth  $\Psi$  and the phase difference  $\Delta$  on the thickness  $d_1$  of a layer of  $Al_2O_3$  on an aluminum backing and on the difference in the course of  $x$ . The changes in the azimuth  $\Psi$  or in  $\Delta$  are directly proportional to

Card 1/2



VASICEK, Antonin, doktor fiziko-matematicheskikh nauk

On the theory of the reflection of light on a thin metal layer; a  
response to the article by P.Kard. Eesti tead akad tehn fuus 9  
no.3:242-249 '60. (EEAI 10:3)

1. Universitet g. Brno Chekhoslovatskaya Respublika.  
(Reflection (Optics)) (Light ) (Metals)  
(Thin films)

Z/055/63/013/001/006/013  
E032/E414

AUTHOR: Vašiček, A.

TITLE: Fresnel and energy complex amplitudes in the optics of thin metal films

PERIODICAL: Czechoslovak Journal of Physics, Section B, v.13, no.1, 1963, 36-44

TEXT: It is noted that the Airy summation formulae for the reflection and transmission of light through a thin metal film may be written either in terms of the complex Fresnel amplitudes which follow from the boundary conditions, or in terms of the complex energy amplitudes which can be obtained from Stokes' principle of reversibility. The two formulations are shown to lead to different results and it is established that the energy representation is the correct one because it expresses the complete energy balance at both boundaries of the film. In particular, the theory of H. Murmann (Z. Phys. 80 (1933), 161), who systematically employed complex Fresnel amplitudes, is shown to be incorrect. Murmann's formulae are in conflict with energy conditions. It is shown further that P. Drude's method (Ann. Phys. u. Chem. 43 (1891), 126) for the determination of the reflection

Card 1/2

Fresnel and energy complex ...

Z/055/63/013/001/006/013  
E032/E414

and transmission of light through a thin film will only be correct for real amplitudes and thin dielectric films. It cannot be used to determine the reflection and transmission of light through a thin metal film with the aid of the complex Fresnel formulae because the energy conditions are then not satisfied.

ASSOCIATION: Katedra fyziky pevných látek University J.E.Purkyně,  
Brno (Department of Physics of Solids, University  
J.E.Purkyně, Brno)

SUBMITTED: June 18, 1962

Card 2/2

VASICEK, Antonin, inz.; LINHARD, Milan, inz.

Device for automatic control of the heat conditions of  
electric furnaces. Automatizace 7 no. 7:183-185 J1 '64.

VASICAK, Antonin, inc.

Consider the need of technical equipment. Dial tech 12 no. 6:  
226 Je '04.

VASICEK, Antonin, inz.; LINHARD, Milan, inz.

Colors for marking parts. Sdel tech 12 no.2:54 F'64

Soldering furnace. Ibid.:69

Connecting terminals on aluminum shielding foil. Ibid.:77

BILY, Jaroslav; VASICEK, Boh.

Experience in mechanization at the Prackovice railway track  
repair station. Zel dop tech 11 no.3:82 '63.

Vasicek, J.

Utilization of slag in the building industry. p. 310. NOVA  
TECHNIKA. (Rada vedeckych technickych spolecnosti pri Ceskos-  
lovenske akademii ved) Praha. Vol. 4, no. 7, July 1954.

Source: EEAL LC Vol. 5, No. 10 Oct. 1956



VASICEK J.

(2) ↑  
Dinas bricks from siliceous schist. R. Barta, J. Vasicek, and  
O. Vebtek (*Munich Listy*, 1954, 8, 11-17).—Results of examina-  
tion of physical and technological properties of indigenous siliceous  
schist are discussed. It is found that schist from certain locations is  
suitable for production of high quality SiO<sub>2</sub> bricks, which maintain  
their refractoriness up to 1680—1700°. S. K. LACHOWICZ.

7. Siliceous webber for the manufacture of silica bricks

179. Dinas bricks from siliceous schist.--R. BARTA, J. VAŠIČEK, and O. VEPŘEK (*Ind. Lit.*, 9, 11, 1954; abstracted in *J. Appl. Chem., Lond. (Abstr.)*, 4, 650, 1954). Results of examination of physical and technological properties of indigenous siliceous schist are discussed. Schist from certain locations is suitable for production of high-quality SiO<sub>2</sub> bricks, which maintain their refractoriness up to 1,680-1,700° C.

VASICEK, J.

VASICEK, J. The brick industry in the United States. p. 339

Vol. 34, no. 9, Sept. 1956

STAVIVO

TECHNOLOGY

Praha, Czechoslovakia

So: East European Accession Vol. 6, no. 2, 1957

VASICEK, J.

Structural properties of brickwork of lightened honeycomb bricks made of overlaying clay from the coal fields of the North-Bohemian lignite mining district. p. 227.

(Stavivo. Vol. 35, no. 6, June 1957. Praha, Czechoslovakia)

SO: Monthly List of East European Accessions (EEAL) LC, Vol. 6, no. 10, October 1957. Uncl.

*J. VASICEK, J.*

.CZECHOSLOVAKIA / Chemical Technology . - Ceramics, Glass, - H-13b  
Ceramics. Binders, Concretes, Chemical Products  
and Their Application. Part 2.

Abs Jour : Referat. Zhurnal Khimiya, No 4, 1958, 11976.

Author : J. Vasicek.

Inst : Not given

Title : Structural-Technical Properties of Masonry of Light-Weight  
Multiply Perforated Bricks Manufactured of Overlying Clays  
of North Czechian Brown Coal Basin.

Orig Pub : Stavivo, 1957, 35, No 6, 227 - 230.

Abstract : The results of the study of clays from the North Czechian  
coal basin are presented. The study was carried out with  
a view to use these clays for manufacturing of full-bodied  
light-weight bricks, hollow blocks and tiles for paneling.

Card 1/2

VASICEK, M.

"Graded Bedding and Some Sedimentary Mineral Deposits", P. 417, (SBORNIK. ODDIL GEOLOGICKY, Vol. 20, 1953, Praha, Czech.)

SO: Monthly List of East European Accessions, (EEAL), LC, Vol. 4, No. 3, Mar 1955, Uncl.

VASICEK, M.

VASICEK, M. Report on the journey of exploration aboard the ship Republika. (To be contd.) p. 157.

Vol. 31, No. 4, 1956.

VĚSTNIK

GEOGRAPHY & GEOLOGY

Praha, Czechoslovakia

So: East European Accession, Vol. 6, No. 2, Feb. 1957



VASICER, M.

VASICER, M. Report on the journey of exploration aboard the ship Republika.  
(Conclusion) p. 197.

Vol. 31, No. 5, 1956.

VESTNIK.

GEOGRAPHY & GEOLOGY

Praha, Czechoslovakia

So: East European Accession, vol. 6, No. 3, March 1957

VASICEK, M.

VASICEK, M. Coral bioherms at the southern coast of Bahrain and their importance for recognizing the conditions of the origin and development of reefs. p. 43.

Vol. 62, no. 1, 1957

SEORNIK

GEOGRAPHY & GEOLOGY

Czechoslovakia

So: East European Accession, Vol. 6, No. 5, May 1957

VASICEK, M.

"Enrichment and impoverishment of faunas and floras in the light of the geologic development of the Pacific."

SEORNIK, Praha, Czechoslovakia, Vol. 64, No. 2, 1959.

Monthly list of EAST EUROPEAN ACCESSIONS INDEX (EPAI), Library of Congress,  
Vol. 9, No. 8, August, 1959.

Unclassified.

VASICEK, M.; RUZICKA, B.

Fossil thecamoebina in the coal-bearing sediments in the basin of Upper Silesia. p. 49. (CASOPIS; ODDIL PRIRODOVEDNY, Vol. 126, No. 1, 1957, Praha, Czechoslovakia)

SO: Monthly List of East European Accessions (MEAL) LC, Vol. 6, No. 12, Dec 1957. Uncl.

VASICEK, M.

The broken structure of the loose sediments near Raksice. p. 132.

CASOPIS; ODDIL PRIRODOVEDNY. Praha, Czechoslovakia. Vol. 127, no. 2, 1958.

Monthly list of East European Accessions (EEAI) LC, Vol. 9, no. 1, January 1960.  
Uncl.

VASICEK, Miloslav (Praga)

Tasks of paleontology in the study of sedimentary rocks and sedimentary mineral deposits. Biul.MOIP. Otd.geol. 30 no.6:19-30 H-D '55.(MLRA 9:4)  
(Sedimentation and deposition)

1ST AND 2ND CATEGORIES

PROCESSES AND PROPERTIES INDEX

9

Ca

Organization of the Czechoslovak metallurgical industry. Oldřich Váček. Hlavin 14, 480-2(1947).—A review. Frank Gort

ASM-51A METALLURGICAL LITERATURE CLASSIFICATION

821121 Q61 Q61 151

821121 Q61 Q61 151

VASICEK, J.

Indexes of repairs in metallurgic plants. p. 205. (HUTNIK, Vol. 7, No. 6,  
June 1957, Praha, Czechoslovakia)

SO: Monthly List of East European Accessions (EEAL) LC, Vol. 6, No. 12, Dec 1957. Uncl.



L 34940-66 EWP(t)/ETI IJP(c) JD

ACC NRAP6026602

SOURCE CODE: CZ/0057/65/000/012/0529/0531

AUTHOR: Vasicek, Oldrich (Doctor); Slavik, Vladimir (Engineer)

23

ORG: Vasicek TEVUH, Prague; Slavik NHKG, Ostrava

12

TITLE: Experience in repairs of panel type Martin's furnaces

SOURCE: Hutnik, no. 12, 1965, 529-531

TOPIC TAGS: metallurgic furnace, metallurgic industry

ABSTRACT: The panel type furnaces show a shorter down time than the furnaces of the classical type; the cost of lining them is also lower than in the usual type. The article covers experience with 8 furnaces that have been in production since 1961. Orig. art. has: 3 tables. JPRS: 34,519

SUB CODE: 13, 05 / SUBM DATE: none / ORIG REF: 006 / OTH REF: 001

Card 1/1

09/6

2298

VASICEK, Oldrich, dr.

Efficiency of basic and Dinas linings of open-hearth furnaces. Hut  
listy 16 no.6:387-391 Je '61.

1. Technickoekonomicky vyzkumny ustav hutniho prumyslu a rudnych  
dolu.

VASICEK, Oldrich

A special queue discipline. Aplikace mat 10 no.1:59-71 '65.

1. Institute of Information Theory and Automation of the  
Czechoslovak Academy of Sciences, Prague 2, Vysehradská 49.  
Submitted March 4, 1964.

L 31832-66 T/EWP(1) IJP(c)

ACC NR: AP6021180

SOURCE CODE: CZ/0026/65/010/005/0423/0427

AUTHOR: Vasicek, Oldrich (Prague)

29  
B

ORG: Institute of Information Theory and Automation, CSAV, Prague (Ustav teorie informace a automatizace CSAV)

TITLE: Note on a queueing discipline

SOURCE: Aplikace matematiky, v. 10, no. 5, 1965, 423-427

TOPIC TAGS: queueing theory, probability

ABSTRACT: The paper presents a queueing discipline in the systems M/M/c such that the probability of a customer being served depends on the length of the queue and the order of his arrival. It is proved that, in such a system, the variance of waiting time attains its maximum or minimum value if and only if the customers are served according to the order of their arrivals or the inverse order respectively. Orig. art. has: 7 formulas. [JPRS]

SUB CODE: 12 / SUBM DATE: 12May64

Card 1/1 mc

VASICER, R. BARBA J.

Journal of the Iron and  
Steel Institute  
July 1954  
Refractory Materials

(2)  
~~Silicious Schist for the Manufacture of Silica Bricks. 11.  
Boris, J. Vasicer, and O. Vojtek. (Hutnicki Listy 1954, 9,  
(1), 11-17). (In Czech). Tests were carried out on labora-  
tory specimens of Dinas made from silicious schist found in  
Czechoslovakia. It is shown that the bricks maintain their  
strength up to about 1680, or even 1700° C., so that they are  
not appreciably inferior in that respect to superduty silica  
bricks. However, their softening range is narrow, and their  
use is only justified with good furnace roof temperature  
control.—F. V.~~

CZECHOSLOVAKIA

VASICEK, R.; KUNOVSKY, L.; NOSEK, V.

1. Standardization and Development Research Institute for the Construction of Health Centers (Studijni typisacni a vyvojovy ustav pro vystavbu zdravotnickych zarizeni), Prague (for Vasicek?); 2. Pharmacy Development Center (Rozvojove lekarnicke stredisko), Prague (for Nosek?)

Bratislava, Farmaceuticky obzor, No 2 [Feb] 1967, pp 65-76

"Project design of storehouses for supplies of complex health preparations and materials."

CZECHOSLOVAKIA

RUZICKOVA, D; VASICEK, R.

1. Developmental Drug Center (Rozvojove lekarnicke stredisko), Prague; 2. Study, ~~Typ~~ Typification and Evolution Institute of Health Staff and its Organizations ~~(Skd)~~ (Studjini, typizacni a vyvojovy ustav pro zdravotnicke stavby a jejich zarizeni), Prague

Bratislava, Farmaceuticky obzor, No 7, 1963, pp 298-306

"Typification of Stores for Combustible Materials."

VASICEK, Zdenek

Report on the micropaleontological examination of the NP-441-Jarkov borehole in the Karvina section of the Ostrava-Karvina coalfield. Sbor VSB Ostrava 10 no. 1/2:167-175 '64.

Report on the discovery of conodonts in the Poruba beds of the Ostrava-Karvina coalfield. Ibid.:197-198

1. Submitted December 20, 1963.



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MEMORANDUM FOR THE DIRECTOR

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SUBMITTED: 00

ON: 00

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CIA-RDP86-00513R001858720015-4"

VASICEK, Z.

Kvapilik, Z. Installing AGY conductors using new installation materials. p. 39.  
ELEKTROTECHNIK, Prague, Vol. 10, no. 12, Dec. 1955.

SO: Monthly List of East European Accessions, (EEAL), LC, Vol. 5, No. 6 June 1956,  
Uncl.

VASICEK, Z.

Assembly of glass pipes in the installation of electric systems. p.265.  
(Pozemni Stavby, Vol. 5, No. 5, May 1957, Praha, Czechoslovakia)

SO: Monthly List of East European Accessions (EEAL) LC. Vol. 6, No. 9, Sept. 1957. Uncl.

STAMBERG, Jiri; VASICKEK, Zdenek

Effect of the structure of ion exchange resins on their properties to decolorize sugar solutions. Chem prum 12 no.4:213-219 Ap '62.

1. Vyzkumny ustav syntetickych pryskyric a laku, Pardubice.

STAMBERG, Jiri; VASICEK, Zdenek

Decolorizing ion exchangers. Pt.19: Comparison of the new types of  
decolorizing ion exchangers. Listy cukrovar 79 no.2:33-39 F '63.

VASICH, I.N.

RYBIN, A.A.; SHTIGLITS, S.L.; VASICH, I.N., redaktor; SOSNIN, A.P.,  
tekhnicheskiiy redaktor.

[Production of articles from soft stone] Proizvodstvo izdelii  
iz miagkikh kamnei. Moskva, Gos.izd-vo mestnoi promyshl.RSFSR,  
1956. 111 p. (MLRA 10:6)

(Stone industry)



BELOV, Ye.N.; ZAKHAROV, N.N., redaktor; ~~VASICH, I.N., redaktor izdatel'stva;~~  
BORISOV, A.S., tekhnicheskii redaktor

[Principles for setting norms in technology; manual for setting  
technical norms in local industries] Osnovy tekhnicheskogo  
normirovaniia; rukovodstvo po tekhnicheskomu normirovaniu v  
mestnoi promyshlennosti. Izd. 4-oe, perer. Pod red. N.N.Zakharova.  
Moskva, Gos. izd-vo mestnoi promysl. RSFSR, 1956. 158 p.  
(Production standards) (MLBA 10:7)

CHERNYAVSKIY, Yevgeniy Vladimirovich; SMIRNOV, Ye.V., otvetstvennyy redaktor;  
VASICH, I.N., redaktor izdatel'stva; SOSNIN, A.P., tekhnicheskiy  
redaktor

[Manufacture of cement and sandstone tiles by local industries of  
Voronezh Province] Proizvodstvo tsementno-peschanoi cherepitsy na  
predpriyatiyakh mestnoi promyshlennosti Voronezhskoi oblasti.  
Moskva, Gos.izd-vo mestnoi promyshl. RSFSR, 1957. 62 p. (MLRA 10:7)  
(Voronezh Province--Tiles)

YUGOSLAVIA / General and Special Zoology. Insects.

P

Abs Jour: Ref Zhur-Biol., No 3, 1958, 11686

Author : Vasich K.

Inst : Not given

Title : Towards the Knowledge of the Development Cycle of  
Some Cutworm Moth Species of the Genera Triphaena  
O. and Spaelotis Bsd.

Orig Pub: Glasnik Shumarskog fak. Un-t Belgradu, 1954, 8, 31-  
39

Abstract: The distribution, life conditions and development  
of cutworm moths T. pronuba, T. fimbriata and S.  
ravida are described.

Card 1/1

82882  
S/120/60/000/02/013/052

E032/E314

A Scintillation Counter for the Recording of X-rays

Figure 1 shows the output voltage as a function of currents flowing through the resistors  $R_1 = R_2 = 12 \text{ k}\Omega$ .

As can be seen from these curves, a reduction in the current  $I_1$  by a factor of 2 leads to a reduction in

the output voltage by about 10% (the working point is displaced from M to N). The simultaneous reduction in the currents through  $R_1$  and  $R_2$  by a factor of 2

leads to a reduction in the output voltage also by a factor of 2 (the working point is displaced from M to P). Thus the appearance of a pulse in only one of the photomultipliers leads to a small anticoincidence pulse at the output, while the appearance of simultaneous pulses at the two anodes leads to a large output pulse equal in amplitude to the smaller of the two input pulses. In order to ensure low resolving time,  $R_1$ ,  $R_2$  and  $R_3$

must be shunted by parasitic capacitances as small as possible. The diodes  $\Delta_1$  and  $\Delta_2$  are attached to the

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point A by short pieces of cable, having a natural

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capacitance of 27 pF/m.  $R_3$  forms the input resistor of a cathode follower which decouples this resistor from the capacitance of the connecting cable. The resolving time of this system, determined with the aid of a delay line, was found to be  $10^{-7}$  sec. Figure 2 shows the integral noise spectrum for the two photomultipliers taken separately (Curves a and c) and the spectrum obtained with the coincidence circuit (Curve B). Figure 3 shows the block diagram of the instrument. The pulses from the coincidence circuit are fed into an amplifier in series with a discriminator and the output of the discriminator is recorded either by a scaling unit or by a ratemeter working in conjunction with a pen recorder. The basic circuit of the instrument as a whole is shown in Figure 4. Figure 5 shows the high-voltage rectifier employed. Figure 6 shows the amplifier and the single-channel kicksorter. Figure 7 indicates the method of mounting of the sodium iodide crystals between the photomultipliers. Typical spectra obtained are shown in Figures 8-10. The efficiency of the counter

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was found to be of the order of 90% in a wide wavelength region (between the chromium and molybdenum radiation). The system can thus be used successfully at all wavelengths normally employed in X-ray analysis.

There are 10 figures, 1 table and 16 references, 8 of which are Soviet and 8 English.

ASSOCIATION: Tsentral'nyy nauchno-issledovatel'skiy institut chernoy metallurgii (Central Scientific-Research Institute for Ferrous Metallurgy)

SUBMITTED: March 9, 1959

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ASSOCIATION none

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NO REF. CODE



VASICHEV, B.N.

Use of X-ray spectral analysis in electron microscopy. Zav.  
lab. 31 no. 12:1458-1461 '65 (MIRA 19:1)

1. Tsentral'nyy nauchno-issledovatel'skiy institut Chernoy  
metallurgii imeni Bardina.

L 36552-66 EWT(1)/EWT(m)/I/EWP(t)/ETI IJP(c) JD/JG  
 ACC NR: AP6015758 (A, N) SOURCE CODE: UR/0048/66/030/005/0758/0760

AUTHOR: Vásichev, B. N.; Murashko, G. M.; Utevskiy, L. M.

ORG: none

TITLE: Solution of some experimental problems with the aid of the EMMA-2 electron microscope-microanalyzer /Report, Fifth All-Union Conference on Electron Microscopy held in Sumy 6-8 July 1965/

SOURCE: AN SSSR. Izvestiya. Seriya fizicheskaya, v. 30, no. 5, 1966, 758-760

TOPIC TAGS: x ray analysis, electron microscope

ABSTRACT: About half of the present paper is devoted to a brief description of the EMMA-2 electron microscope microanalyzer, which was fabricated from a Tesla desk model electron microscope. A condenser system was provided which produced an electron beam probe with a diameter less than  $1 \mu$  on the object. The second condensing lens of this system had a very short working distance, which made it possible to increase the angle of departure of the x rays from the object to  $28^\circ$ . The instrument was equipped with two small x-ray spectrometers employing LiF or mica crystals. The projection system of the microscope was left unaltered; this made it possible directly to observe the position, shape, and size of the probe when working with a thin object, and to bring the probe accurately into coincidence with the desired part of the object. The power

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supply of the microscope was so altered as to make it possible to vary the accelerating potential in steps from 25 to 70 kV. In the remainder of the paper three applications of the instrument are discussed briefly. In one experiment a thin film of an iron-molybdenum alloy was examined. The alloy had been heated for 30 minutes in an argon atmosphere. The film was found to contain inclusions with enhanced molybdenum content. In a second experiment, x-ray analysis of a heat treated austenitic chrome-nickel steel revealed the presence near the carbide inclusions of zones enriched in nickel and impoverished in chromium. Extraction replicas provided the possibility of determining the shape and distribution of the inclusions, and the chemical composition of the particles in the replica could be determined by x-ray microanalysis. In the third experiment the small particles resulting from explosion in vacuum of a nichrome wire were examined. The particles were found all to have the same composition. Orig. art. has: 4 figures.

SUB CODE: 20/

SUM DATE: 00/

ORIG REF: 003/

OTH REF: 003

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VASICHEV, T.

LETTER TO THE EDITOR: STANDARD DESIGNS ARE NEEDED FOR WATER POWER PLANTS.  
( By Engineer T. Vasichev. Pravda, Jan. 24, p. 3. 225 words. Summary:)

Water power plants with a capacity of 300 to 350 kilowatts can be set up along the river Par, Ryazan Province, but when the collective farmers of Mezhar'sk District decided to build the first one, the Village Power Trust did everything possible to reduce the planned capacity to 100 kilowatts. A capacity of 200 kilowatts was finally agreed upon.

The delay stems from the fact that the Village Power Trust as yet has not found time to work out standard designs for a plant with a capacity above 100 kilowatts. It has not carried out its pledge to prepare a manual on the construction of inexpensive and durable dams from local materials.

SO: CURRENT DIGEST OF THE SOVIET PRESS, VOL. I, # 4, 22 Feb 1949, Unclassified.

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So. Knizhnaya letopis'. No. 49, 3 December 1955. Moscow.

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Karlovy University v Praze, (prednosta prof. dr. J. Konopik, DrSc.).

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Difficulties in clinical diagnosis of several forms of lupus  
tuberculosis. Cesk. dermat. 40 no.5:330-332 0 '65.

1. I. dermatovenerologická klinika fakulty všeobecného lékařství  
Karlovy University v Praze (prednosta prof. dr. J. Konopík, DrSc.).

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1. Shkola No. 569, Moskva.  
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LOGINOV, A., kand.pedagog.nauk; KOVACH, S.K. (g.Satanov, Khmel'nitskoy obl.); BAYEV, S.Ya., uchitel'; POPOVA, A.N., uchitel'nitsa; ZAMULIN, G.T.; YEMEL'YANOVA, T.I.; PYATNITSKIY, M.P.; YAROSHCHUK, N.A., uchitel'; CHISTYAKOV, V.M., uchitel'; LENSIN, A.S. (g. Novosibirsk); NOSKOV, V.I., (g.Feodosiya); RUD', K.A., uchitel'nitsa; VASIK, G.Ye., uchitel'; GAPONENKO, I.M.

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1. Pedinstitut, g. Ulan-Bator (for Loginov).
2. Ordzhonikidzevskaya srednyaya shkola No.5, Stavropol'skiy kray (for Bayev).
3. Nikiforovskaya shkola sel'skoy molodezhi, Tambovskoy oblasti (for Popova).
4. Pedagogicheskiy institut g. Krasnodara (for Zamulin, Yemel'yanova, Pyatnitskiy).
5. Srednyaya shkola No.8, g. Vinnitsy (for Yaroshchuk).
6. Srednyaya shkola sovkhoza "Spartak" Saratovskoy obl. (for Chistyakov).
7. Srednyaya shkola No.14 g. Stalina (for Rud').
8. Shkola No.569 g. Moskvy (for Vasik).
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SUKHORUKOV, Fedor Vasil'yevich; SIBIRYAKOV, Vasil'y Nikolayevich;  
SOLOMONIK, Yakov Abramovich; VOKOB'YEV, Ivan Yegorovich;  
VASIKOV, Ivan Nikitich; TROITSKIY, P.S., nauchn. red.

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Stroizdat, 1965. 286 p. (MIRA 18:2)

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Water speed in canals. p. 106.

REVISTA TRANSPORTURILOR. (Asociatia Stiintifica a Inginerilor si Tehnicienilor din Romania si Ministerul Transporturilor Rutiere, Navale si Aeriene) Bucuresti, Rumania. Vol. 6, no. 3, Mar. 1959.

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Uncl.



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IONESCU, Nicolae, ing.; STANISTE, Zor, ing.; CATARAU, Gheorghe; VASILACHE,  
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Reduction of storage and transport losses. p. 552.

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Vol. 9, no. 12, Dec. 1958.

Monthly List of East European Accessions (EEAI) LC, Vol. 8, no. 6, June 1959

Uncl.

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RUMANIA / Chemical Technology, Chemical Products and Their  
Application, Part 3. - Drugs, Vitamins, Anti-  
biotics.

H-17

Abs Jour : Ref Zhur - Khim., No 14, 1958, No 47795

Author : N. Stanciu, A. Opari, Florica Cenusaru, Marieta Vasilsche.

Inst : -

Title : Utilization of Bentonite as Raw Material for Medicament  
Preparation, Reprt I-a.

Orig Pub : Farmacia (Romin.). 1957, 5, No.5, 432 -441.

Abstract : The properties of local bentonites used as a raw material for  
the preparation of medicaments (fillers for pills and ta-  
blets) were studied. The introduction of local bentonites  
into the pharmaceutical practice standardizes the methods  
of work, improves the quality of many forms of medicaments  
and replaces some imported preparations with domestic ones.

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Vasilache, N.; - Coefficient  $\lambda$  of hydraulic resistance and two systems of the flow of fluids in conduits. p.204. v. 100.

SO: Monthly List of East European Accessions List (MEAL) LC, Vol 4, No. 11  
November 1955, Uncl.

VACIACHE, I.

Preparation of crude oil for refining. p. 100.  
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SO: Monthly List of East European Accessions, (MEAL), L3, Vol. 4, no. 10, Oct. 1955,  
Uncl.

VASILACHE, N.

Successive pumping of crude oil or of petroleum products through the same conduit. p. 29. PETROL SI GAZE. (Asociatia Stiintifica a Inginerilor si Tehnicienilor din Romania si Ministerul Industriei Petrolului) Bucuresti. Vol. 6 (i. e. 7) no. 1, Jan. 1956.

So. East European Accessions List Vol. 5, No. 9 September, 1956

RUMANIA / Chemical Technology. Chemical Products and H  
Their Applications. Corrosion. Corrosion Control.

Abs Jour: Ref Zhur-Khimiya, 1959, No 5, 12154.

Author : Dumici, I.; Vasilache, N.

Inst : Not given.

Title : Corrosion of Underground and Surface Equipment.

Orig Pub: Petrol si gaze, 1958, 9, No 6, 259-264.

Abstract: Instances of corrosion of oil-refining industry  
equipment and transportation means are described,  
as well as measures for its control (use of inhi-  
bitors). -- From the authors' resume.

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Feb. 1960

Uncl.

VASILACHE, N., ing.

Collection and conveyance of crude oil. Petrol si gaze 13 no.9:397-  
404 8 '62.

where  $F(x)$  and  $F'(x)$  are expressed in an obvious way in  
 terms of the coordinates  $x$  and  $y$  of the system of solutions  
 of the system of equations

$$\sum_{i=1}^n H_i(x,y) \frac{\partial F}{\partial x_i} = 0$$

*E. H. Hillebrandt* (Ann Arbor, Mich.).

Source: Mathematical Reviews

1963

1963

1963

1. ASHLEY, SERGEI

$$\sum_{k=1}^n (L_k(t_k) + R_k(t_k)) = \int_{t_0}^{t_n} f(t) dt = E_1(t) \quad (k=1, \dots, n)$$

$$X = \{x_1, x_2, \dots, x_n\} \quad Y = \{y_1, y_2, \dots, y_n\}$$



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$$(1) \quad \phi(p, q) = \int \int e^{-(px+qy)} f(x, y) dx dy$$

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